## ABSTRACT

A control unit calculates a quantity of air that is taken into an engine from an output current from an air flow meter that is located downstream from a throttle valve. The control unit then determines the quantity of fuel to be injected for this quantity of air. A value obtained by multiplying by two an integral value of the quantity of air from the rise point of the quantity of air until the quantity of air reaches a peak value is used for calculating the injection quantity. This value is taken as the total integrated air intake quantity of an intake stroke, and this is then divided by a predetermined air-fuel ratio so as to provide the quantity of fuel to be injected.